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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/961,355	09/25/2001	Tomoharu Tanaka	01701.00119	5894

22907 7590 04/25/2003

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EXAMINER

OWENS, DOUGLAS W

ART UNIT	PAPER NUMBER
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2811

DATE MAILED: 04/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/961,355

Applicant(s)

TANAKA ET AL.

Examiner

Douglas W Owens

Art Unit

2811

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 19-23 is/are rejected.
- 7) ☒ Claim(s) 1-18 and 24-31 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 September 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Claim Objections

1. Claims 1 – 31 are objected to because of the following informalities:
 - in line 12 of claim 1, the second occurrence of “to” should be deleted;
 - in line 4 of claim 3, the word “is” should be inserted between “substrate” and “stacked”;
 - in line 2 of claim 5, the word “is” should be inserted between “package” and “stacked”;
 - in line 4 of claim 6, the word “is” should be inserted between “package” and “stacked”;
 - in line 12 of claim 9, the second occurrence of the word “to” should be deleted;
 - in line 2 of claim 11, the word “is” should be inserted between “package” and “stacked”;
 - in line 4 of claim 12, the word “is” should be inserted between “package” and “stacked”;
 - in line 13 of claim 15, the second occurrence of the word “to” should be deleted;
 - in line 2 of claim 16, the word “is” should be inserted between “substrate” and “stacked”;
 - in line 4 of claim 17, the word “is” should be inserted between “substrate” and “stacked”;
 - in line 3 of claim 18, the word “defected” should be replaced with “defective”;

in line 3 of claim 19, the word "device" should be inserted between "memory" and "having";

in line 9 of claim 19, "manages" should be replaced with "manage";

in line 9 of claim 19, "relation" should be replaced with "relationship";

in line 14 of claim 19, "is" should be inserted between "which" and "capable";

in line 14 of claim 19, "being" should be inserted between "of" and "used";

in lines 2 and 3 a Markush group should be used instead of the term "...to a transmission control protocol/internet protocol;

in line 2 of claim 21, "is" should be inserted between "interface" and "connectable";

in line 2 of claim 22, "is" should be inserted between "interface" and "connectable";

in line 2 of claim 23, "is" should be inserted between "interface" and "connectable";

in line 11 of claim 24, "manages" should be replaced with "manage";

in line 15 of claim 24, "is" should be inserted between "which" and "capable";

in line 15 of claim 24, "being" should be inserted after "of";

in line 2 of claim 25, "is" should be inserted between "substrate" and "stacked";

in line 4 of claim 26, "is" should be inserted between "substrate" and "stacked";

in line 2 of claim 28, "is" should be inserted between "package" and "stacked";

and

in line 4 of claim 29, "is" should be inserted between "package" and "stacked".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 19 – 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent No. 6,219,708 to Martenson.

Regarding claim 19, Martenson teaches a nonvolatile semiconductor memory system comprising:

a memory cell array including a plurality of nonvolatile semiconductor memory cells (Col. 6, lines 7 – 10);

a control portion configured to control the memory (Col. 5, lines 23 – 41);

a network interface (360) connectable to a network (Col. 5, lines 16 – 19); and

a file management portion connected to the network interface, configured to manage a relationship between a data file given from the network and an address of the memory cell array (Col. 5, lines 40 and 41).

Martenson does not explicitly teach a memory interface connected to the file management portion configured to convert a signal given from the network to a signal, which is capable of being used at the control portion. It would have been obvious for one of ordinary skill to provide a memory interface for converting a signal from the network to a signal that can be used for the control portion, since Martenson teaches

that a signal is received from the network, which must necessarily be used at the control portion.

Regarding claim 20, Martenson teaches a system, wherein the network interface corresponds to an internet protocol.

Regarding claims 21 and 22, Martenson teaches a system, wherein the network interface is connectable to the network by using a file transfer protocol (Col. 5, lines 55 – 57).

Regarding claim 23, Martenson teaches a system, wherein the network interface is connectable to the network by using a point-to-point protocol (Col. 7, lines 48 – 51).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 703-308-6167. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

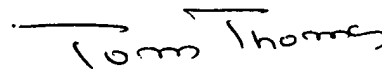
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DWO

April 19, 2003

A handwritten signature in black ink that reads "Tom Thomas". The signature is written in a cursive style with a horizontal line above the first name.

TOM THOMAS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800